Onick Identifier

Material Safety Data Sheet

MANUFACTURER EMERGENCY TELEPHONE NO.

Roto-Rooter Corporation 800-424-9300

300 Ashworth Road OTHER INFORMATION CALLS

West Des Moines, Iowa 50265 515-243-3000

DATE PREPARED: 09/26/03

PERSON RESPONSIBLE FOR PREPARATION

Brian Mersch

SECTION 1 - IDENTITY

COMMON NAME: Roto-Rooter Root Destroyer CHEMICAL FAMILY: Copper/Cupric Salt

CHECIMAL NAME: Copper Sulfate Pentahydrate

FORMULA: ZZ1007

SECTION 2 - HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS % THRESHOLD LIMIT VALUE

COMPONENT(S)

Section 313 Supplier Notification: This product contains the following toxic chemical subject to the reporting requirements of section 313 of the

Emergency Planning and Community Rightto-Know Act of 1986 and of 40 CFR 372:

CAS # 7758-99-8 Copper (ii) Sulfate

Pentahydrate

99.0 (from NIOSH 1990 – Pocket Guide –RELs): As

copper: 1mg/m^3 TWA (dusts & mists); 0.1

mg/m^3 TWA (fumes)

There is No ACGIH, NIOSH, or OSHA exposure guidelines listed for this product's components.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: N/A SPECIFIC GRAVITY (H₂O=1): 2.28

VAPOR PRESSURE (mm Hg): N/A SOFTENING POINT: N/A

VAPOR DENSITY (AIR = 1): N/A EVAPORATION RATE (Butyl Acetate=1): N/A

SOLUBILITY IN WATER: Appreciable REACTIVITY IN WATER: N/A

APPEARANCE AND ODOR: Blue crystals or granules/None

FLASH POINT: N/A LEL: N/A UEL: N/A

SPECIAL FIRE FIGHTING PROCEDURES:

GENERAL FIRE HAZARDS: This material will not burn.

HAZARDOUS COMBUSTION PRODUCTS: Combustion may produce irritating copper fumes and

toxic gaseous oxides (sulfur oxides).

EXTINGUISHING MEDIA: Use methods for the surrounding fire.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS: Firefighters should wear full protective clothing

including self-contained breathing apparatus. NFPA Rating: Fire: 0 Health: 2 Reactivity: 1 Other: 0 HMIS Rating: Fire: 0 Health: 2 Reactivity: 1 Other: Personal Protection: Gloves, Goggles				
SECTION 4 - PHYSICAL HAZARDS				
STABILITY ⊠ CO UNSTABLE □STABLE	NDITIONS TO	AVOID: 1	None Identified	
INCOMPATIBILITY (MATERIALS TO AVOID): Incompatible with acetylene. Copper salts may react to form explosive acetylides. Copper sulfate can cause ignition upon contact with hydroxylamine due to the release of heat. Reducing agents react vigorously with copper salts.				
HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur Oxides.				
HAZARDOUS ☐MAY OC POLYMERIZATION ☑WILL NO		ONDITIO	NS TO AVOID: None K	nown
SECTION 5 - HEALTH HAZARDS				
ROUTE(S) OF ENTRY: INHALATION: SKIN: INGESTION: EYES: May cause irritation to the eyes, nose, and throat. Firefighters should wear protective equipment and clothing when fighting a fire involving this material. EYES: Concentrated solutions may cause irritation of the eye tissue. SKIN: May use mild to moderate irritation of the skin. \ INGESTION: Copper salts impart a metallic taste in the mouth. May cause gastrointestinal irritation and vomiting. This product may be fatal if swallowed. INHALATION: Dusts and mists (from solutions) can cause irritation of the nose and throat. Ulceration of nasal septum is possible, but may be due to traces of sulfuric acid impurities.				
 SIGNS AND SYMPTOMS OF EXPOSURE: ACUTE OVEREXPOSURE: General Product/Component Information: For dusts and mists, the target organs are the respiratory system, skin, liver, and kidneys. For fumes, the target organs are the respiratory system, skin, and eyes. Component LD50/LC50: Copper (ii) Sulfate Pentahydrate (1:1:5) (7758-99-8) Oral, rat: LD:50 = 300 mg/kg CHRONIC OVEREXPOSURE: Irritation of mucous membranes, gastro-intestinal tract 				
MEDICAL CONDITIONS GEN disease, a disease associated with the aggravated by exposure to this production.	he inability to re			
OR POTENTIAL T	NATIONAL TOXICOLOGY PROGRAM	∐Yes ⊠No	I.A.R.C. □Yes MONOGRAPHS ☑No	OSHA □Yes ☑No
EMERGENCY AND FIRST AID PROCEDURES: 1. INHALATION: If symptoms are experienced, remove sources of contamination or move victim to freely picture and contamination or move victim to freely picture.				

- fresh air. Seek medical attention if symptoms persist.
- 2. EYES: Immediately flush eyes with water for 20 minutes. Obtain medical attention if symptoms
- 3. **SKIN:** Immediately flush contaminated area with water for at least 20 minutes. Seek medical attention if symptoms persist. Completely decontaminate clothing, shoes, and leather goods before reuse or discard them.
- 4. INGESTION: If swallowed, and victim is conscious, give large amounts of water. Seek medical attention immediately. If victim has not yet done so, induce vomiting.

☑ 012/012

Notes to Physician: Consult the nearest Poison Control Center for all exposures except minor instances of inhalation and skin contact.

SECTION 6 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): None normally required

VENTILATION: Use general or local exhaust ventilation to meet TLV requirements.

LOCAL EXHAUST:

MECHANICAL (General):

SPECIAL:

OTHER:

PROTECTIVE GLOVES: Impervious gloves

EYE PROTECTION: Wear safety glasses with side

shields or chemical goggles.

OTHER PROTECTIVE EQUIPMENT: Coveralls, boots, and/or other resistant protective clothing. Have safety shower and eyewash fountain readily available.

General: Use proper hygiene practices when handling this material, including changing and laundering work clothing after each use.

SECTION 7 - SPECIAL PRECAUTION AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool dry place. Store in suitable labeled container.

OTHER PRECAUTIONS: Avoid inhalation of dusts. Use in designed areas with adequate ventilation. Keep containers closed and dry. Keep out of reach of children.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Containment Procedure: Stop or reduce leak if safe to do so. Clean-up Procedures: Prevent material from entering sewers and waterways. Put material in suitable, covered labeled containers. Evacuation Procedures: Keep unnecessary personal away. Close off area. Special Instructions: Wear adequate personal protective equipment. Avoid inhalation of dusts. Ventilate the area.

WASTE DISPOSAL METHODS: Dispose of according to all local, state and federal laws.